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# New paddle joystick

Curtiss Wright has launched the Penny & Giles JC1200, a next-generation, paddle type joystick controller for use in control panels and armrests where heavy use over a long period is required.

The new controller uses a long-life bearing system and non-contact Hall-effect sensing technology, as a result the JC1200 has passed a 25 million cycle test, during which it has remained functional, smooth and easy to use.

Other features include an under-panel depth of just 9mm, a spring-loaded return-to-centre or return-to-end paddle movement, an integrated panel seal and IP67 protection for outside use. The company also offers a choice of nine colour for the paddle 'Tabs', which can be factory fitted or supplied separately and added as part of the final customer installation process.

The JC1200 has a 5Vdc supply voltage and the option for factory-programmable electronics, configured to one of two analogue voltage output ranges (0.5-4.5V or 1.0-4.0V).

The joystick also provides safety functionality via dual outputs, which can be set to positive or negative ramps, or a combination of both. This offers system designers the option to compare the output signals for error checking.



The new Penny & Giles heavy use paddle type joysticks can be colour coded



The new joysticks have an in panel depth of just 9mm

# People and machine detection

French safety solutions provider Arcure has launched the Blaxtair VCAS anti-collision system which uses electromagnetic technology to detect pedestrians and surrounding vehicles. The system detects and locates electronic badges or fobs, worn by people or similar devices fitted to other equipment on site.



Pedestrians on site carry or wear a fob

Sensors mounted on the vehicle are able to detect the badge's electromagnetic wave within a range of 300mm to 200 metres, and provide the driver with an audible and visible alarm. The system is easy to install onto mobile machinery, and accurately locates pedestrians or other vehicles as soon as they



The in cab screen shows pedestrians and other vehicles in addition to emitting an audio alarm

enter a precisely defined area around the machine. In the event of a person or another vehicle entering the danger zone, a visual and sound signal will alert the driver and the pedestrian. A screen in the cab provides a clear view of the position of other vehicles or pedestrians allowing the driver to react.

The system comprises, antenna, a main box and in cab screen



# Tyre pressure data transmission

Tyre manufacturer Continental CST has launched the ContiFlexBox to work in conjunction with its tyre pressure monitoring system ContiPressureCheck. The new system, which will be available from 2016, collects the tyre pressure and temperature etc...and transmits it along with other vehicle data via a telematics system to a central server.

All parts of the tyre pressure monitoring system can be retro-fitted to almost any industrial vehicle and is suitable for all types and makes of pneumatic tyres. Sensors mounted to the inside of the tyre continuously and automatically monitor the inflation pressure and temperature and transmits it to a communication/processing receiver which is wired to an in-cab screen for the operator to monitor and to the ContiFlexBox which transmits it to a central server.

By fitting the sensors to the inside of the tyre it not only protects them, but also eliminates inaccurate readings which can occur with externally mounted devices, through heat from the brakes. The difference between the stipulated and actual tyre pressures can be seen by the operator as well, while the new ContiFlexBox allows office or maintenance staff to keep an eye on the situation, as well as recording it for future reference.



- 1 ContiFlexBox
- 2 Receiver/CCU
- 3 Sensor
- 4 OBD(Display)/FMS
- 5 Server

The ContiFlexBox collects the data for onward transmission



The ContiPressureCheck sensors are mounted inside the tyre and transmit information wirelessly to a receiver/processor that is wired into an in-cab display



The full system

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